

इंटरनेट

मानक

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“Step Out From the Old to the New”

IS 8386 (1977): Method of test for end-load rating of oil hydraulic filter elements [PGD 16: Fluid Power]



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Bhartrhari—Nitiśatakam

“Knowledge is such a treasure which cannot be stolen”



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AMENDMENT NO. 1 OCTOBER 1984

TO

IS:8386-1977 METHOD OF TEST FOR END-LOAD RATING  
OF OIL HYDRAULIC FILTER ELEMENTS

Addendum

(Page 1, clause 5.2) - Add the following new  
'clauses after 5.2:

'6. Classification of Test

6.1 The test for end-load rating of oil hydraulic  
filter elements given in this standard is a type test.'

(EDC 73)

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Reprography Unit, ISI, New Delhi, India



Indian Standard

METHOD OF TEST FOR END-LOAD RATING OF  
OIL HYDRAULIC FILTER ELEMENTS

**1. Scope** — Specifies the method for verifying the end-load rating of an oil hydraulic fluid power filter elements.

**2. Definitions**

**2.1 Rated End-Load** — The maximum axial force specified by the manufacturer which can be applied to the end of a filter element without permanent deformation or seal failure.

**3. Test Equipment** — Suitable weights or mounting fixtures, as agreed upon between the user and the manufacturer, for applying the rated end-load to simulate the installation and mounting requirements of the particular filter element under test.

**4. Test Procedure**

**4.1** Subject the filter element to the fabrication integrity test as specified in IS : 8383-1977 'Method of test for fabrication integrity of oil hydraulic filter elements' and hot soaking as specified in IS : 8385-1977 'Method of test for material compatibility of hydraulic filter elements'.

**4.2** After the 72-hour hot soak ( see 4.1 ), cool the filter element to room temperature and subject it to the rated end-load for 5 minutes.

**4.3** Afterwards subject the filter element to the collapse/burst resistance test in accordance with IS : 8384-1977 'Method of test for collapse/burst resistance of oil hydraulic filter elements'.

**5. Test Results**

**5.1** There shall be no visual evidence of structural, seal or filter medium failure.

**5.2** The collapse/burst resistance test specified in 4.3 shall be completed successfully.

## EXPLANATORY NOTE

In oil hydraulic fluid power systems, power is transmitted and controlled through a liquid under pressure within an enclosed circuit in which filters maintain fluid cleanliness by removing insoluble contaminants. The filter element is a porous device which performs the actual process of filtration.

This standard is one of the series of standards relating to the methods of test for verifying the various characteristics of oil hydraulic filter elements.

This standard is based on Draft International Standard ISO/DIS 3723, Hydraulic fluid power — Filter elements — Method for end load test, issued by International Organization for Standardization.

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